X is known

Y is known

 $\mathring{X}$  is known

 $\mathring{Y}$  is known

$$\dot{X} = \dot{X}_1 + \dot{X}_2 + \dot{X}_3 + \dot{X}_4 
\dot{Y} = \dot{Y}_1 + \dot{Y}_2 + \dot{Y}_3 + \dot{Y}_4 
X_1 = X_2 = X_3 = X_4 = X 
Y_1 = Y_2 = Y_3 = Y_4 = Y$$

$$\begin{split} &\left(X - \mathring{X}_1 - 1\right) \cdot \left(Y - \mathring{Y}_1 - 1\right) + \\ &\left(X - \mathring{X}_2 - 1\right) \cdot \left(Y - \mathring{Y}_2 - 1\right) + \\ &\left(X - \mathring{X}_3 - 1\right) \cdot \left(Y - \mathring{Y}_3 - 1\right) + \\ &\left(X - \mathring{X}_4 - 1\right) \cdot \left(Y - \mathring{Y}_4 - 1\right) = \end{split}$$

$$\sum_i \left( X - \mathring{X}_i - 1 \right) \cdot \left( Y - \mathring{Y}_i - 1 \right) =$$

$$\begin{split} &\sum_{i} \left( X \cdot Y - X \cdot \mathring{Y}_{i} - X \right) + \\ &\sum_{i} \left( -\mathring{X}_{i} \cdot Y + \mathring{X}_{i} \cdot \mathring{Y}_{i} + \mathring{X}_{i} \right) + \\ &\sum_{i} \left( -Y + \mathring{Y}_{i} + 1 \right) = \end{split}$$

$$\sum_{i} (X \cdot Y - X - Y + 1) +$$

$$\sum_{i} \left( -X \cdot \mathring{Y}_{i} - \mathring{X}_{i} \cdot Y + \mathring{X}_{i} \cdot \mathring{Y}_{i} + \mathring{X}_{i} + \mathring{Y}_{i} \right) =$$

$$\begin{split} &\sum_{i} \left( X \cdot Y - X - Y + 1 \right) + \\ &\left( -X \cdot \mathring{Y}_{1} - \mathring{X}_{1} \cdot Y + \mathring{X}_{1} \cdot \mathring{Y}_{1} + \mathring{X}_{1} + \mathring{Y}_{1} \right) + \\ &\left( -X \cdot \mathring{Y}_{2} - \mathring{X}_{2} \cdot Y + \mathring{X}_{2} \cdot \mathring{Y}_{2} + \mathring{X}_{2} + \mathring{Y}_{2} \right) + \\ &\left( -X \cdot \mathring{Y}_{3} - \mathring{X}_{3} \cdot Y + \mathring{X}_{3} \cdot \mathring{Y}_{3} + \mathring{X}_{3} + \mathring{Y}_{3} \right) + \\ &\left( -X \cdot \mathring{Y}_{4} - \mathring{X}_{4} \cdot Y + \mathring{X}_{4} \cdot \mathring{Y}_{4} + \mathring{X}_{4} + \mathring{Y}_{4} \right) = \end{split}$$

$$\begin{split} &\sum_{i} \left( X \cdot Y - X - Y + 1 \right) + \\ &- X \cdot \mathring{Y} - Y \cdot \mathring{X} + \\ &\left( \mathring{X}_{1} \cdot \mathring{Y}_{1} + \mathring{X}_{1} + \mathring{Y}_{1} \right) + \\ &\left( \mathring{X}_{2} \cdot \mathring{Y}_{2} + \mathring{X}_{2} + \mathring{Y}_{2} \right) + \\ &\left( \mathring{X}_{3} \cdot \mathring{Y}_{3} + \mathring{X}_{3} + \mathring{Y}_{3} \right) + \\ &\left( \mathring{X}_{4} \cdot \mathring{Y}_{4} + \mathring{X}_{4} + \mathring{Y}_{4} \right) = \end{split}$$

$$\begin{split} & \sum_{i} \left( X \cdot Y - X - Y + 1 \right) + \\ & - X \cdot \mathring{Y} - Y \cdot \mathring{X} + \\ \mathring{X} + \mathring{Y} \\ & + \mathring{X}_{1} \cdot \mathring{Y}_{1} \\ & + \mathring{X}_{2} \cdot \mathring{Y}_{2} \\ & + \mathring{X}_{3} \cdot \mathring{Y}_{3} \\ & + \mathring{X}_{4} \cdot \mathring{Y}_{4} \end{split}$$